


I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: April 19, 2006

Signature: 

Joseph A. Williams, Jr.

  
Docket No.: 30572/41384  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Ingrid Kloting et al.

Application No.: 10/539,535

Confirmation No.: 6750

Filed: June 17, 2005

Art Unit: Not Yet Assigned

For: Use of Multifunctional Transcription Factor  
Yin-Yang-1 and Variants Thereof for Treating  
Illnesses, Especially Type 1 Diabetes

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Applicants have not submitted a copy of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicants submit herewith a copy of each foreign patent document and each non-patent literature document in accordance with 37 CFR 1.98(a)(2).

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 30572/41384. A duplicate copy of this paper is enclosed.

Dated: April 19, 2006

Respectfully submitted,

By 

Joseph A. Williams, Jr.

(Registration No.: 38,659)

MARSHALL, GERSTEIN & BORUN LLP

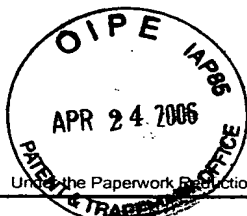
233 S. Wacker Drive, Suite 6300

Sears Tower

Chicago, Illinois 60606-6357

(312) 474-6300

Attorney for Applicant



PTO/SB/08a/b (07-05)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
				Application Number	10/539,535-Conf. #6750
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Filing Date	June 17, 2005
				First Named Inventor	Ingrid Klötting
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	30572/41384
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Chang, et al. "Vitamin D receptor gene polymorphisms influence susceptibility to type 1 diabetes mellitus in the Taiwanese population," Clinical Endocrinology, 52:575-580 (2000)	
		Donohoe, et al. "Targeted Disruption of Mouse Yin Yang 1 Transcription Factor Results in Peri-Implantation Lethality," Molecular and Cellular Biology, 19:7237-7244 (1999)	
		EMBL Accession No. AY442180, "Rattus norvegicus strain BB/OK transcription factor YY1 (Yy1) gene, complete cds" (2003)	
		Garbán et al. "Nitric Oxide Inhibits the Transcription Repressor Yin-Yang 1 Binding Activity at the Silencer Region of the Fas Promoter: A Pivotal Role for Nitric Oxide in the Up-Regulation of Fas Gene Expression in Human Tumor Cells" Journal of Immunology, 167:75-81 (2001)	
		Guo, et al. "Yin-Yang 1 Activates Interleukin-4 Gene Expression in T Cells" The Journal of Biological Chemistry, 278(52):48871-48878 (2001)	
		Klötting, et al. "Mapping of Novel Genes Predisposing or Protecting Diabetes Development in the BB/OK Rat," Biochemical and Biophysical Research Communications, 245:483-486 (1998)	
		Klötting, et al. "Genes of SHR Rats Protect Spontaneously Diabetic BB/OK Rats from Diabetes: Lessons from Congenic BB.SHR Rat Strains," Biochemical and Biophysical Research Communications 283:399-405 (2001)	
		Klötting, et al. "Genetic variation in the multifunctional transcription factor Yy1 and type 1 diabetes mellitus in the BB rat," Molecular Genetics and Metabolism 82:255-259 (2004)	
		Klötting, et al. "Congenic mapping of type 1 diabetes-protective gene(s) in an interval of 4 Mb on rat chromosome 6q32," Biochemical and Biophysical Research Communications, 323:388-394 (2004)	
		Klötting, et al. "Is there an autoimmune process in bone? Gene expression studies in diabetic and nondiabetic BB rats as well as BB rat-related and -unrelated rat strains," Physiol. Genomics 24:59-64 (2005)	
		Lucke, et al. "Endocrine Pancreas Histology of Congenic BB-Rat Strains with Reduced Diabetes Incidence After Genetic Manipulation on Chromosomes 4, 6 and X," Autoimmunity 36(3):143-149 (2003)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/539,535-Conf. #6750
				Filing Date	June 17, 2005
				First Named Inventor	Ingrid Kloting
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	30572/41384

		Rabinovitch, et al. "Cytokines and Their Roles in Pancreatic Islet $\beta$ -Cell Destruction and Insulin-Dependent Diabetes Mellitus," Biochemical Pharmacology 55:1139-1149 (1998)	
		Raval-Pandya, et al. "YY1 Represses Vitamin D Receptor-Mediated 25-Hydroxyvitamin D <sub>3</sub> 24-Hydroxylase Transcription: Relief of Repression by CREB-Binding Protein," Molecular Endocrinology 15(6):1035-1046 (2001)	
		Seto, et al. "YY1 is an initiator sequence-binding protein that directs and activates transcription <i>in vitro</i> ," Nature 354:241-245 (1991)	
		Shea-Eaton, et al. "Yin Yang 1 Protein Negatively Regulates High-Density Lipoprotein Receptor Gene Transcription by Disrupting Binding of Sterol Regulatory Element Binding Protein to the Sterol Regulatory Element," Endocrinology 142(1):49-58 (2001)	
		Yao, et al. "Regulation of Transcription Factor YY1 by Acetylation and Deacetylation," Molecular and Cellular Biology, 21(17):5979-5991 (2001)	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--